

SEPARATOR FOR ALKALINE BATTERY AND MANUFACTURE THEREOF

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Abstract of JP11067182

PROBLEM TO BE SOLVED: To provide a separator which is easily wettable with the electrolyte, having large electrolyte-holding characteristic, superior in property for transmitting gaseous oxygen to be generated from a positive electrode at the time of charging and provided with strength by forming a separator of a non-woven fabric including polyolefinic fiber, subjected to sulfonation after being oxidized in the presence of persulfate. **SOLUTION:** Sulfonated polyolefinic fiber is non-woven so as to form a separator, but at the time of sulfonating the polyolefinic fiber, sulfonation can be evenly performed in the mild condition by oxidizing beforehand the polyolefinic fiber in the presence of persulfate. Wettability with the electrolyte is improved, and uneven reaction is hardly generated in a positive electrode and a negative electrode at the time of charging and discharging, and a separator having superior cycle lifetime characteristic, sufficient hydrophilic characteristic and strength is obtained, and the rise in the inner pressure of a battery can be restrained.

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